**Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**atmosphere and Meteorology Project**

3.d.1-3

**General Directions**: Your group will be given three of the Virginia Beach Objectives related to this unit. Your group will be responsible for **researching the objectives, creating a lesson and developing an activity** to teach the three objectives you have been assigned to the rest of the class. Guiding questions have been provided to help you cover each objective. You will be using a PowerPoint slideshow to use as a visual aid to teach the lesson.

**Step 1**: Research your objective using books and resources provided (Databases located at <https://destiny.vbcps.com> and books). Take notes. Be sure to answer the guiding questions in a way that you can easily explain to your classmates. Diagrams, charts and graphs are great tools to visually interpret information. Collect citation information and save to a location you can access (jump drive, H Drive or SharePoint).

**Step 2:** Organize your information so that you can easily share it with others. Develop a PowerPoint presentation with your group to cover your topic. All group members must contribute to the PPT and participate in the presentation. Use the following format as a template for your PowerPoint.

PowerPoint format :

Slide 1-State Key Concept/Topic

Slide 2:  State objective

Slide 3-4:  Guiding Question with 3-5 bullet points

Slide 5:  State Objective

Slide 6-7:  Guiding Question with 3-5 bullet points

Slide 8:  State Objective

Slides 9-10:  Guiding Question with 3-5 bullet points

Slide 11:  Bibliography

Relevant photos/pictures throughout

**Step 3:** Develop an activity to be used by classmates during lesson. All group members must contribute to the activity.

Develop a table of weather prediction tools. Leave blanks for students to fill in.

Develop a table of weather map symbols. Leave blanks for students to fill in.

**Step 4:** As a group, practice teaching your lesson. Remember to use the PowerPoint as a guide but do not read it to the class.

**ES3.d Daily Weather**

**3.d.1 Collect, read, and interpret data from a thermometer, a barometer, a psychrometer, and observation of cloud types.**

*What tools are used in weather prediction?*

*What role does each play in weather prediction?*

*How do meteorologists use each tool? (Be prepared to explain how to use them!)*

**3.d.2 Read and interpret a weather map that includes station models, isobars, isotherms, fronts and high and low pressure systems.**

*What symbols are used on weather maps?*

*Define station models, isobars, isotherms, fronts, and high and low pressure systems.*

*How do we use maps and station models to communicate weather predictions?*

**3.d.3 Predict weather patterns based on cloud type, temperature and barometric pressure.**

*What are the types of clouds and how/where do they form?*

*How can we use clouds and temperature to predict the weather?*

*What is the role of the barometer in weather prediction and how do you read one?*

**Fast Facts:**

Weather describes day-to-day changes in atmospheric conditions.

Weather is measurable, and to a certain extent, predictable.